NPIC/TDS/D-843-67 19 May 1967

MEMORANDUM FOR: Deputy Chief, Development Staff, TDS	
THROUGH : Chief, Support Systems Branch, DS/TDS	
SUBJECT : Evaluation of Special Drying Techniques -	25X1
1. On May 4, 1967, a visit was made to	Z5X I
some microwave drying equipment being exhibited by the	25X1
. The exhibit was part of display at a trade fair.	2 98X 1 25 X 1
set up in 1947 as a subsidiary of	25X1
the Ite purpose is to sell or lease patents	25X1
owned by the	25X1
for the microwave dryer displayed at the show.	25X1
2	25X1
graphic prints could not be tested in the machine of the the inventor of the dryer was also present at the demonstration.	25X1
3. The unit was about 8 feet long by 2 feet wide. The equipment was "L" shaped with the vertical leg about 7 feet high. No carrier belt was used for supporting the paper. The power supply and controls occupied about half of the equipment volume. A variable speed drive was used to vary paper speed from near zero to 50 feet per minute. Some wrinkles were being formed on the paper. However, they were probably caused by the type of rollers being used and were not caused by the drying technique.	25X1
the Film Board has an excellent reputation for its production of films and still photography. Manager of the photo lab showed us their experimental microwave dryer. This unit was operated by an 1800 watt power supply. A color print was dryed at about one foot per minute. The screen used as a carrier belt left impressions	25X1 25X1 25X1

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SUBJECT: Evaluation of Specia	d Drying Techai	guas +		25X1
on the print. The power supple tested on the dryer. Some been given to the construction supply was suggested by he admitted that RFI and radial the carrier belts were made of about 2 feet square by three feway it was packaged that it combe power supply was not noisy	consideration to of this equipment for a protion problems he of crying 40 it woven fiber glacet high althoughlich have been de	o radiation shielest. A 25 to 50 oduction machine. ad not been fully neh wide prints on the power sigh it was apparent esigned into a se	ding had KW power However, considered. If any length, nupply was t from the maller space.	25X1
produced considerable noise,				
6. Since both pieces of one was not designed for drying not possible to conclude wheth While it has been shown that a drying of photographic material power supply sizes, possible a quirements.	ng photographic per microvave dr nicrovaves certs als, nore resear	naterials, at thi ring can solve NF inly bave potenti ch is needed to d	s time it is IC's problems. al in the letermine	
7. On April 26,	o	f Wright-Patterso	n AFB vas	25 X 1
asked about department's plans Force would probably negotiate	two developmen	t contracts,		25X1
<u></u>	go de A	elop kierowave di	Aine.	25X1
				25X1
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Orig & 1 - Addressee \[\sqrt{2} - Originators \] \[3 - TDS/DS \]				
NPIC/TDS/DS	(19 May 67)			25X1

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aur Bearing.	25X1
2450 megagelee per field is jum 2,450,000 ayclee per field is jum	15" × 18" × 24" ping 4 wandength
lossless plastic Lossless plastic Could use "felin on continuous belt,	
Low radiation Screening could eliminate RFI Would prefer to use two drums.	pholog. paper 12" 17 fil 3,5 oc. min 125 film film
20" × 21" × 40" sug of pozze popply	